



Dipartimento di Fisica  
Università di Cagliari  
INFN, Sezione di Cagliari



# HIGH ENERGY PHYSICS COLLOQUIA

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## SIMULTANEOUS CONDENSATION OF MESONS

### Abstract

We discuss a new formalism for the description of multicomponent meson systems within chiral perturbation theory. We derive the general expression of the leading order Lagrangian and apply it to a system of two pion gases at different isospin chemical potentials. We determine the ground state properties, the spectrum of the low-energy excitations and possible instabilities.

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